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Following the survey in 1914, additional work was done, the cost of which was as follows:

During 1914:

| | |
|--------------------|-----------|
| Labor..... | \$139. 50 |
| Oil..... | 50. 00 |
| Ditching..... | 450. 00 |
| Miscellaneous..... | 86. 00 |
| Total..... | 725. 50 |

For the year 1915 the cost was:

| | |
|-------------------------------------|-----------|
| Labor for draining and filling..... | \$126. 80 |
| Oil..... | 10. 00 |
| Miscellaneous..... | 7. 00 |
| Total..... | 143. 80 |

Results of antimalarial measures.—The number of cases for the last four months of 1913 were 44, as compared with 144 for the same period of the previous year, 1912. For 1914 the number was 40 per cent less than for the year 1913; and for the year 1915, 17.6 per cent less than for the year 1914.

Blood examinations gave for May, 1914, May being the beginning of the malarial season, 11.76 per cent carriers of the parasite, and for April, 1915, 3.79 per cent, a reduction in the incidence of carriers of 67.7 per cent in the one year.

Mr. Hughes, the manager of the lumber mills, stated recently that no family had moved from Electric Mills during the year 1915; that the superintendent of schools reported the average attendance as unusually good; that the people were happy and healthy; that the labor efficiency was most satisfactory; and that these conditions were only to be attributed to the sanitation directed against typhoid and malarial fevers.

Credit is due to Dr. Cecil Champenois in carrying out the measures known to be effective in the control of these diseases.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended February 19, 1916, was received from Surg. Boggess, of the United States Public Health Service, in charge of the work.

SAN FRANCISCO, CAL.

RAT PROOFING.

| | |
|--|---------|
| New buildings: | |
| Inspections of work under construction. | 184 |
| Basements concreted (square feet, 48,760)..... | 51 |
| Floors concreted (square feet, 199,430)..... | 34 |
| Yards, passageways, etc. (square feet, 26,993)..... | 97 |
| Total area of concrete laid (square feet). | 275,183 |
| Class A, B, and C (fireproof) buildings: | |
| Inspections made..... | 103 |
| Roof and basement ventilators, etc., screened..... | 299 |
| Wire screening used (square feet)..... | 1,478 |
| Openings around pipes, etc., closed with cement..... | 329 |
| Sidewalk lens lights replaced..... | 600 |
| Old buildings: | |
| Inspections made..... | 402 |
| Wooden floors removed..... | 34 |
| Cubic feet new foundation walls installed..... | 4,280 |
| Concrete floors installed (square feet, 15,894)..... | 20 |
| Basements concreted (square feet, 6,403)..... | 11 |
| Yards and passageways, etc., concreted (square feet, 5,389)..... | 27 |
| Total area concrete laid (square feet)..... | 27,686 |
| Floors rat proofed with wire cloth (square feet, 7,220)..... | 7 |
| Buildings razed..... | 17 |
| New garbage cans stamped approved..... | 375 |
| Nuisances abated..... | 243 |

SAN FRANCISCO, CAL.—Continued.

OPERATIONS ON THE WATER FRONT.

| | |
|--|--------|
| Vessels inspected for rat guards..... | 21 |
| Reinspections made on vessels..... | 19 |
| New rat guards procured..... | 5 |
| Defective rat guards repaired..... | 4 |
| Rats trapped on wharves and water front. | 26 |
| Rats trapped on vessels..... | 40 |
| Traps set on wharves and water front..... | 183 |
| Traps set on vessels..... | 41 |
| Vessels trapped on..... | 14 |
| Poisons placed on water front (pieces)..... | 3,600 |
| Poisons placed with Panama-Pacific International Exposition grounds..... | 38,000 |
| Bait used on water front and vessels (bacon, pounds)..... | 6 |
| Bread used in poisoning water front (loaves)..... | 9 |
| Poison used on water front (pounds)..... | 3 |

RATS COLLECTED AND EXAMINED FOR PLAGUE.

San Francisco:

| | |
|---------------------|-------|
| Collected..... | 386 |
| Examined..... | 312 |
| Found infected..... | None. |

Hollister:

| | |
|---------------------|-------|
| Collected..... | 2 |
| Examined..... | 2 |
| Found infected..... | None. |

RATS IDENTIFIED.

| | |
|-----------------------|-----|
| Mus norvegicus..... | 209 |
| Mus rattus..... | 86 |
| Mus alexandrinus..... | 56 |
| Mus musculus..... | 35 |

Operations are being carried on on lands owned by the People's Water Co. as follows:

| Contra Costa County tract. | Acres treated. | | Material used. | | |
|----------------------------|----------------|--------|----------------|---------|--------------|
| | Kilmol. | Grain. | Kilmol. | Grain. | Waste balls. |
| M. Hopkins..... | 110 | | Gallons. 29 | Pounds. | 1,581 |
| Fortier..... | | 350 | | 300 | |

RECORD OF PLAGUE INFECTION.

| Places in California. | Date of last case of human plague. | Date of last case of rat plague. | Date of last case of squirrel plague. | Total number rodents found infected since May, 1907. |
|--|------------------------------------|----------------------------------|---------------------------------------|--|
| Cities: | | | | |
| San Francisco..... | Jan. 30, 1908 | Oct. 23, 1908 | (¹) | 398 rats. |
| Oakland..... | Aug. 9, 1911 | Dec. 1, 1908 | (¹) | 126 rats. |
| Berkeley..... | Aug. 28, 1907 | (¹) | (¹) | None. |
| Los Angeles..... | Aug. 11, 1908 | (¹) | Aug. 21, 1908 | 1 squirrel. |
| Counties: | | | | |
| Alameda (exclusive of Oakland and Berkeley)..... | Sept. 24, 1909 | Oct. 17, 1909 ² | July 12, 1915 | 287 squirrels, 1 wood rat. |
| Contra Costa..... | July 13, 1915 | (¹) | Nov. 12, 1915 | 1,597 squirrels. |
| Fresno..... | (¹) | (¹) | Oct. 27, 1911 | 1 squirrel. |
| Merced..... | (¹) | (¹) | July 12, 1911 | 5 squirrels. |
| Monterey..... | (¹) | (¹) | Apr. 10, 1914 | 6 squirrels. |
| San Benito..... | June 4, 1913 | (¹) | Aug. 14, 1915 | 50 squirrels. |
| San Joaquin..... | Sept. 18, 1911 | (¹) | Aug. 26, 1911 | 18 squirrels. |
| San Luis Obispo..... | (¹) | (¹) | Jan. 29, 1910 | 1 squirrel. |
| Santa Clara..... | Aug. 31, 1910 | (¹) | July 23, 1913 | 25 squirrels. |
| Santa Cruz..... | (¹) | (¹) | May 17, 1910 | 3 squirrels. |
| Stanislaus..... | (¹) | (¹) | June 2, 1911 | 13 squirrels. |

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Lassen, and Modoc.

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended February 12, 1916, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

| RAT PROOFING. | | WATER FRONT. | |
|---|-----|--|-------|
| New buildings inspected..... | 9 | Vessels inspected and histories recorded..... | 12 |
| New buildings reinspected..... | 22 | Vessels fumigated..... | 1 |
| New buildings reinspected (concrete foundations)..... | 29 | Sulphur used, pounds..... | 1,100 |
| New buildings elevated..... | 2 | New rat guards installed..... | 16 |
| Buildings razed..... | 2 | Defective rat guards repaired..... | 9 |
| | | Fumigation certificates issued..... | 1 |
| | | Port sanitary statements issued..... | 34 |
| | | The usual day and night patrol was maintained to enforce rat guarding and fending. | |
| LABORATORY AND RODENT OPERATIONS. | | MISCELLANEOUS WORK. | |
| Dead rodents received..... | 16 | Rat-proofing notices sent to contractors, new buildings..... | 6 |
| Rodents trapped and killed..... | 261 | Letters sent in re rat complaints..... | 2 |
| Rodents recovered after fumigation..... | 12 | Lectures on sanitary measures..... | 2 |
| Total..... | 289 | New restaurants inspected..... | 10 |
| Rodents examined for plague infection..... | 185 | | |
| Bodies examined for plague infection..... | 8 | | |
| CLASSIFICATION OF RODENTS. | | RODENTS EXAMINED IN EVERETT. | |
| Mus rattus..... | 7 | Mus norvegicus trapped..... | 32 |
| Mus alexandrinus..... | 51 | Mus norvegicus found dead..... | 1 |
| Mus norvegicus..... | 149 | Mus musculus trapped..... | 1 |
| Mus musculus..... | 70 | Total..... | 34 |
| Unclassified..... | 12 | Rodents examined for plague infection..... | 34 |
| | | Rodents proven plague infected..... | None. |

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.**WEEK ENDED FEB. 12, 1916.**

| | | | |
|-------------------------------------|-------|--|-----|
| Total rats and mongoose taken..... | 373 | Classification of rats killed by sulphur dioxide: | |
| Rats trapped..... | 358 | Mus rattus..... | 9 |
| Mongoose trapped..... | 6 | Average number of traps set daily..... | 894 |
| Rats killed by sulphur dioxide..... | 9 | Cost per rat destroyed, 21½ cents. | |
| Examined microscopically..... | 316 | Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910. | |
| Showing plague infection..... | None. | Last case human plague, Honolulu, July 12, 1910. | |
| Classification of rats trapped: | | Last case rat plague, Paauhau, Hawaii, Jan. 18, 1916. | |
| Mus alexandrinus..... | 163 | Last case human plague, Paauhau plantation, Hawaii, Dec. 16, 1915. | |
| Mus musculus..... | 67 | | |
| Mus norvegicus..... | 109 | | |
| Mus rattus..... | 19 | | |

Hilo.**WEEK ENDED JAN. 29, 1916.**

| | | | |
|---|-------|--|-------|
| Rats and mongoose taken..... | 2,735 | Classification of rats trapped and found dead—Continued. | |
| Rats trapped..... | 2,692 | Mus rattus..... | 829 |
| Mongoose taken..... | 43 | Mus musculus..... | 1,015 |
| Rats and mongoose examined microscopically..... | 2,735 | Last case of rat plague, Paauhau Sugar Co., Jan. 18, 1916. | |
| Rats and mongoose plague infected..... | None. | Last case of human plague, Paauhau Sugar Co., Dec. 16, 1915. | |
| Classification of rats trapped and found dead: | | | |
| Mus norvegicus..... | 416 | | |
| Mus alexandrinus..... | 432 | | |